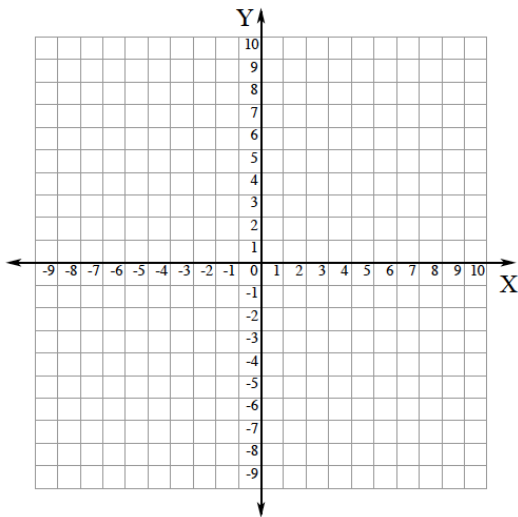


Algebra 2
Quadratic Functions WS #1

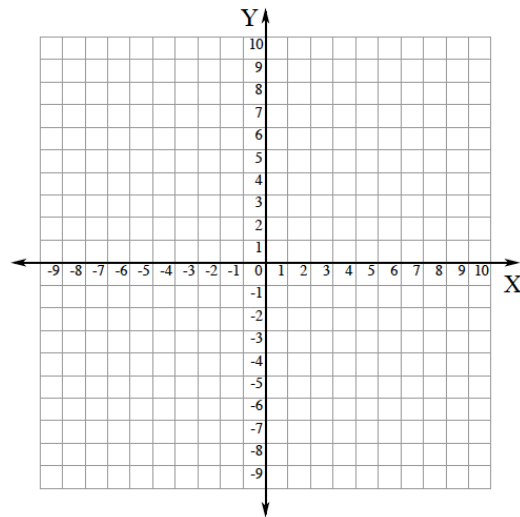
Name _____

Graph each quadratic function. Indicate whether the parabola opens up or down. Find the equation of the axis of symmetry and the coordinates of the vertex. Also, tell whether the vertex is a maximum or minimum point.

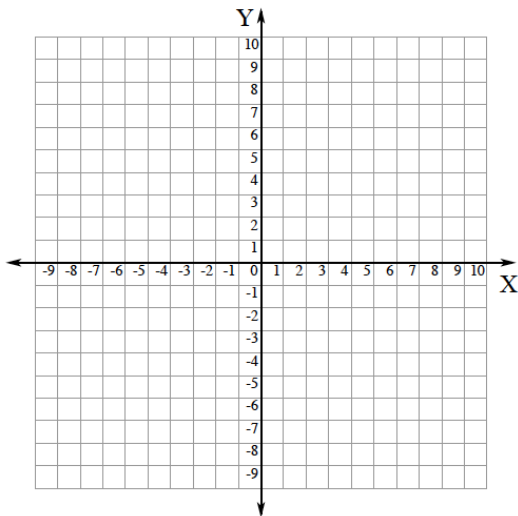
1) $y = 4x^2$



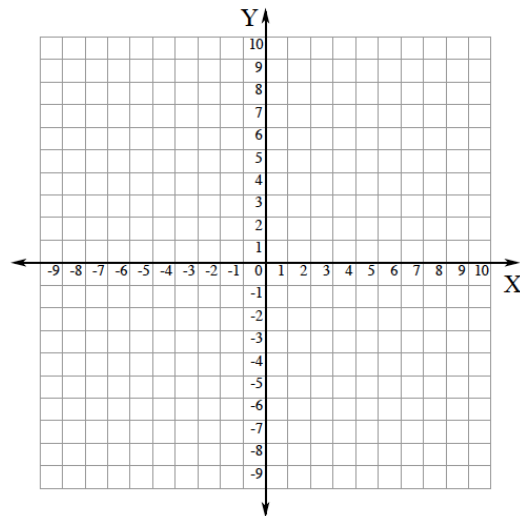
2) $y = -4x^2$



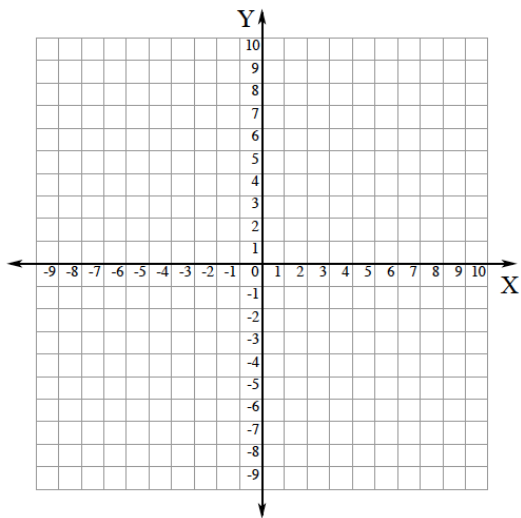
3) $y = \frac{1}{4}x^2$



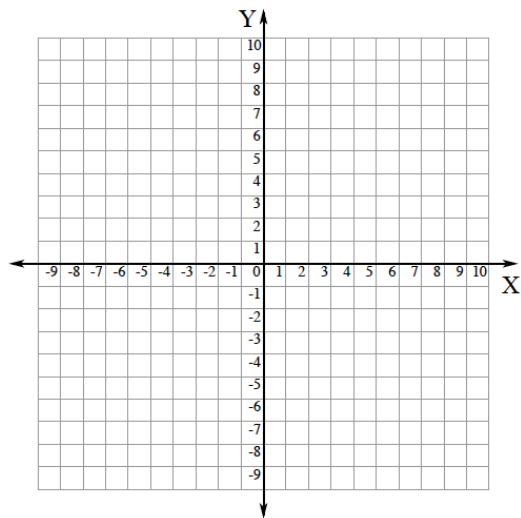
4) $y = -\frac{1}{4}x^2$



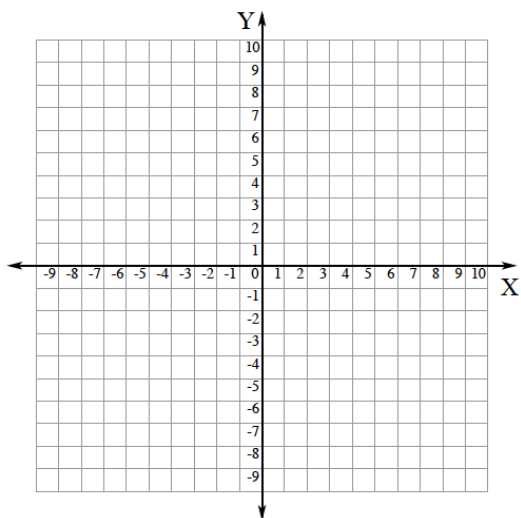
5) $y = x^2 + 2$



6) $y = -x^2 - 1$



7) $y = 4x^2 - 5$



8) $y = -3x^2 + 2$

